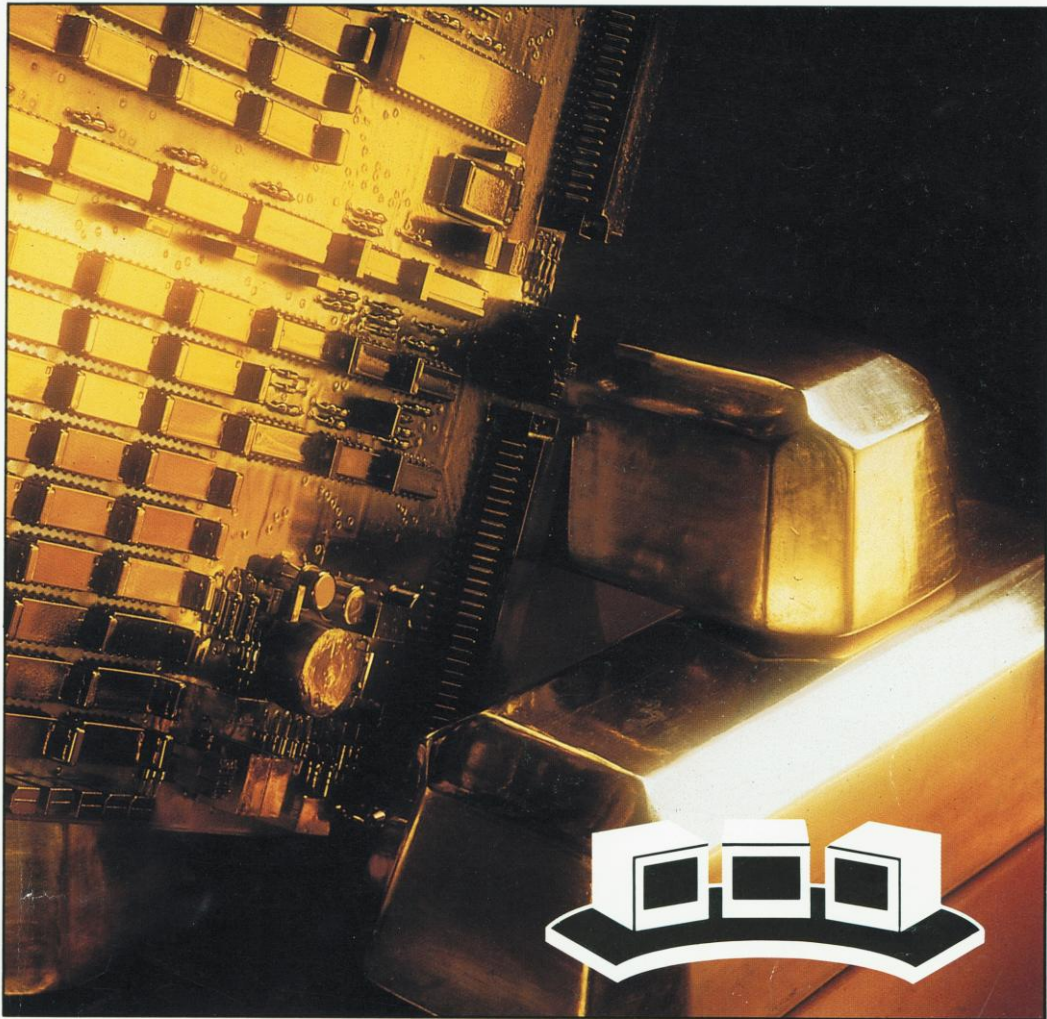


ASEA TESSELATOR 8010



... a golden opportunity in color graphic systems resulting from
ASEA's 100 years of process control experience.

ASEA TESSELATOR 
Committed to ergonomics



TESSELATOR 8010 – a clear picture of your process.

The operator's window into the process is the CRT. The easier this window makes it for the operator to see the important control features of the system, the easier it is for the operator to optimize the process.

The Tesselator 8010 is a color-graphic system designed to present a clear picture that's easy for the user to understand. It combines ergonomics, simple display generation and fast "real time" communication.

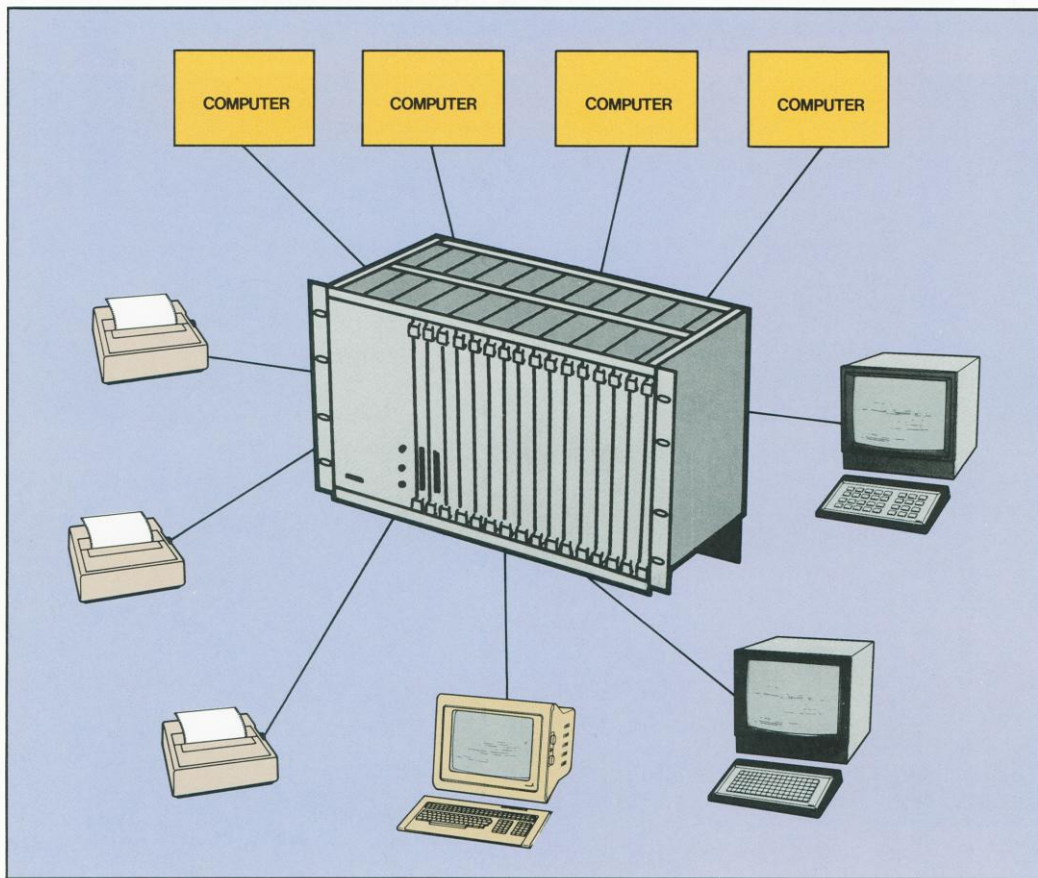
For maximum information management, the display generator can communicate with up-to-four host computers. And an operator can view process information through three CRT's to obtain an instant overview of the system.

To meet specific operator preferences, four keyboards of various styles are available. Each keyboard allows operators easy access to many different symbols and various color selections to display more information without sacrificing legibility. Dynamic information can be plotted in trends and bargraphs with full-graphics accuracy. And all displays can be printed out with the color hardcopy option.

As a symbol-oriented system with full-graphics resolution, the Tesselator 8010 allows each symbol to be defined down to a pixel level that can be represented by a single code. This means that up-to-one hundred displays can be stored in local memory ready for quick-response display selection.

The interactive display editor allows operators to build displays quick and easy. They can choose from 600 standard symbols or build their own unique characters which can be stored for reuse.

Although unique in performance and design, every Tesselator is backed by years of process experience in such fields as power utilities, steel production, pulp and paper. Tesselator brings you the latest performance with proven dependability.



TESSELATOR 8010 the rackmountable display generator.

The Tesselator 8010 lets you meet the requirements and changes in your control room or process.

Easily changed and expandable, the Tesselator 8010 features plug-in circuit boards that are mounted in a 19" rack with back panels for all connections and front panels with LED's for fault indications. And there's the designed-in versatility of many alternatives for connecting peripherals and host computers.

Peripherals:

- Monitors, 13", 16" and 19".
- Alpha-numeric printers for alarm, events.
- 7 color graphic hardcopy.
- Display generation and operator keyboards.
- Trackball.
- Touch screen.

Functions:

- 4 writing directions.
- 5 symbol sizes.
- 16 foreground colors.
- 8 local background colors.
- 64 general background colors.
- 4 blink functions.
- Trends.
- Histograms.
- Bargraphs.
- Zoom.
- Pan.
- Menuhandling.
- Local display storage.
- Symbol editor.
- Hard copy.
- Window function.
- Scroll.
- Display editor.

TESSELATOR 8010 – three compatible models.



Tesselator is a family of MMC-products for process control, SCADA, EMS and factory automation. The Tesselator 8010 is available in three basic configurations with differing numbers of display channels and a choice of floppy support.

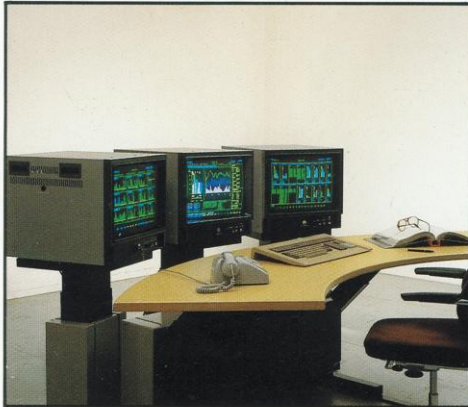
TESSELATOR 8110

Basic system includes:

- 1 display channel.
- 4 channels for asynchronous communication.

Options:

- 2 synchronous communication channels.
- Local display storage.



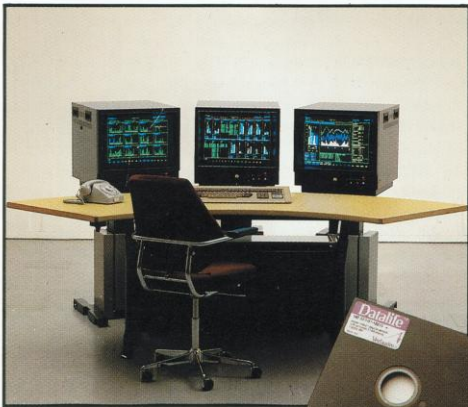
TESSELATOR 8310

Basic system includes:

- 1 display channel.
- 4 channels for asynchronous communication.

Options:

- Expandable to 2 or 3 display channels.
- Additional 8 asynchronous and 2 synchronous channels.
- Local display storage.



TESSELATOR 8410

Basic system includes:

- 1 display channel.
- 4 channels for asynchronous communication.
- Floppy disc support.

Options:

- Expandable to 2 or 3 display channels.
- 2 synchronous channels.
- Local display storage.

Data

Input power

93–124 VAC, 47–63 Hz (8110, 8310, 8410)
186–265 VAC, 47–63 Hz (8110, 8310, 8410)
19–32 VDC (8310, 8410)
38–65 VDC (8310, 8410)

Power consumption

max 100 W (8110)
max 235 W (8310)
max 255 W (8410)

Processors

CPU MC68000, 10 MHz
256 Kb PROM, 8 Kb EEPROM
Display processor MC68000, 8 MHz
60 Kb symbol memory

Communication

Synchronous: Point-point, 1–4 hosts
Data link: CCITT X.25/2 LAP or LAPB
Interfaces: RS422/449 up to 250 Kbit/s
RS232C (V.24) up to 19,2 Kbaud
Coax modem up to 250 Kbit/s
Fiber-optic modem up to 250 Kbit/s

Asynchronous: Point-point, 1–8 channels
Data link: ADLP-10 for host communication
Interfaces: RS232C (V.24) up to 19,2 Kbaud
Built-in modem up to 9,6 Kbaud

Display channel

No of CRT's: 1–3
Frequency: 61 Hz, noninterlaced
Video signal: RS170 RGB
Negative sync
150 ft distance
Monochrome output

Colors/blink

Foreground: 16
Blink: 4
Local background: 8 (2 intensities)
General background: 64

Cursors/display channel

Computer cursor
Operator cursor
16 trend cursors

Resolution

720×336 pixel resolution.
56 lines×120 rows max.

Symbols

No: 896
Standard prom set 600
– 5 sizes of alphanumeric characters
– 3 sizes of industrial/electrical symbols

Zoom

4×true-hardware zoom.

Local display storage

64 or 192 Kb for up-to-100 displays.

Tab

Unlimited number of computer and operator fields.

Protect

Any area on the screen may be protected.

Physical characteristics

Chassis:
19" rack
W: 18.97" (482 mm)
H: 11.81" (300 mm)
D: 15.35" (390 mm)

Weight:
36 lb. (18 kg) (8110)
40 lb. (20 kg) (8310)
42 lb. (21 kg) (8410)

Environmental

Temp – operational:
+ 5° – + 70°C (8110, 8310)
+ 10° – + 45°C (8410)

Temp – storage:
– 40° – + 85°C (8110, 8310)
– 22° – + 55°C (8410)

Relative humidity:
10–95% (8110, 8310)
20–80% (8410)

Display generator MTBF

Min configuration:
36.300 hr (8110)
34.700 hr (8310)
24.150 hr (8410 without floppy)
5.900 hr (8410 with floppy)

Max configuration:
27.200 (8110)
17.400 (8310)
15.430 (8410 without floppy)
5.200 (8410 with floppy)

Peripherals

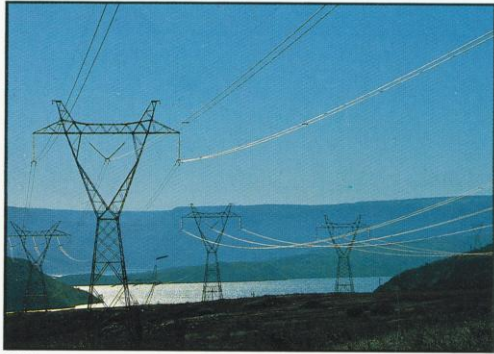
Color monitor: DSIM 3919 19"
DSIM 2619 16"
DSIM 3419 13"

Keyboard: DSIH 70/70F
DSIH 90
QDHI 01
QSAV 821

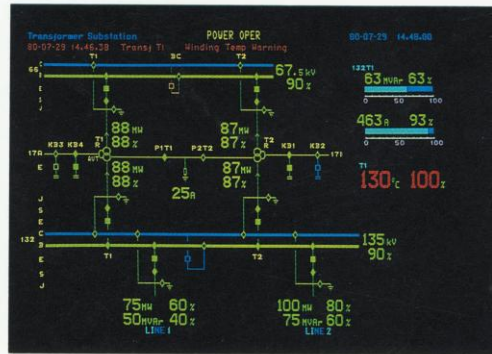
Trackball: DSIH 71

Hardcopy: DSEP 4544

TESSELATOR is your process window



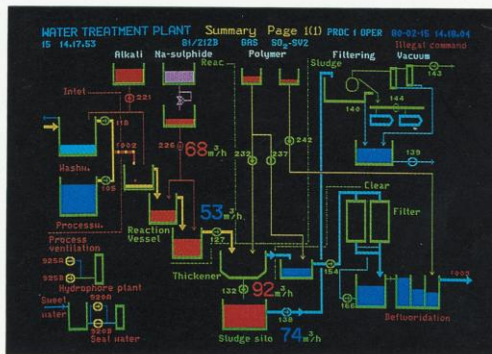
88611



800752



840177



801601



ASEA INDUSTRIAL SYSTEMS PROCESS AUTOMATION DIVISION

Main Office

Mailing address:
P.O. Box 372
Milwaukee, WI 53201
(414)-785-3200

Street Address:
16250 W. Glendale
New Berlin, WI 53151
Shipping Address:
2500-A Commerce Dr.
New Berlin, WI 53151

Regional Sales Offices

West:
66 Bovet. Rd.
San Mateo, CA 94402
(415)-574-5400

Central:
3721 Copperats Dr.
Columbus, OH 43229
(614)-891-2732

East:
5775 Peachtree Dumwoody
Suite 260-F
Atlanta, GA 30342
(404)-257-1504